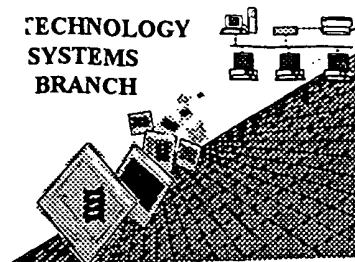


O IPE

TECHNOLOGY  
SYSTEMS  
BRANCH



0590  
0124

## CRF Problem Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 09/915,181  
Filing Date: 7/24/2001  
Date Processed by STIC: 1/26/2002

STIC Contact: Mark Spencer, 703-308-4212

### Nature of Problem:

The CRF (was):

- ☒ (circle one) Damaged or Unreadable (for Unreadable, see attached)  
☐ Blank (no files on CRF) (see attached)  
☐ Empty file (filename present, but no bytes in file) (see attached)  
☐ Virus-infected. Virus name: \_\_\_\_\_ The STIC will not process the CRF.  
☐ Not saved in ASCII text  
☐ Sequence Listing was embedded in the file. According to Sequence Rules, submitted file should **only** be the Sequence Listing.  
☐ Did not contain a Sequence Listing. (see attached sample)  
☐ Other: \_\_\_\_\_

**PLEASE USE THE CHECKER VERSION 3.1 PROGRAM TO REDUCE ERRORS.  
SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

0590  
0405

#9



OIEP

## RAW SEQUENCE LISTING

DATE: 04/08/2002

PATENT APPLICATION: US/09/915,181A

TIME: 15:33:00

Input Set : A:\305-932610US.txt

Output Set: N:\CRF3\04082002\I915181A.raw

P.6

ENTERED

3 <110> APPLICANT: EDWARDS, ROBERT  
 4 BELLOCCHIO, ELIZABETH  
 5 FREMEAU, ROBERT  
 6 REIMER, RICHARD  
 8 <120> TITLE OF INVENTION: NOVEL GLUTAMATE TRANSPORTERS  
 10 <130> FILE REFERENCE: 305T-932610US  
 12 <140> CURRENT APPLICATION NUMBER: US 09/915,181A  
 C--> 13 <141> CURRENT FILING DATE: 2002-03-26  
 15 <150> PRIOR APPLICATION NUMBER: US 60/220,556  
 16 <151> PRIOR FILING DATE: 2000-07-25  
 18 <160> NUMBER OF SEQ ID NOS: 11  
 20 <170> SOFTWARE: PatentIn version 3.0  
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 27 <220> FEATURE:  
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 29 <223> OTHER INFORMATION: n is a, g, c, or t  
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 37 caaagaaaac tcgatgggac caacgaggag ggagatgccat ttgagctgag tgaggaagga 180  
 39 aggcctgtgc agacatccag agcccgagcc cctgtgtgag actgcagctg ctgtggcatc 240  
 41 cccaagcggg acatcatcgc tgcattgagt ggcctgggat tctgcatttc ctttgggatt 300  
 43 cgggtcaacc ttggagtggc cattgtggaa atggtcaaca atagcactgt gtatgtggat 360  
 45 gggaaaccgg aaatccagac agcacagttt aactgggatc cagagacggg gggaagggcg 420  
 47 aattctctta tccatggatc ttttttctgg ggttatattg tgacacaaat tcccgggtggc 480  
 49 ttcattttcaa acaagtttgc tgctaacagg gtctttggag ctgccatctt cttgacgtca 540  
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 61 caggcttatg agtgtccagc agttcaccca acaatatcca atgaagaacg gacctacata 900  
 63 gagacaagta taggagaagg cgccaacttg gccagtctga gcaaattcaa cacaccatgg 960  
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 75 gggttttccc ataccaaagg agtggctatc tccttctctg tgcctgctgt aggatttagt 1320  
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002

TIME: 15:33:00

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Output Set: N:\CRF3\04082002\I915181A.raw

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 83 gccctggtgc actacagtgg agtcatcttc tacgggggtct ttgcttcttg ggaaaaacag 1560  
 85 gactgggctg atccagagaa tctctctgag gagaaatgtg gaatcattga ccaagatgaa 1620  
 87 ttagccgagg aaacagaact caaccacgag gctttcgtaa gtcccagaaa gaagatgtct 1680  
 89 tatggagcca ccaccagaa ttgtgaggtc cagaagacgg atcggagaca acagagagaa 1740  
 91 tccgccttcg agggggagga gccattatcc taccagaatg aagaggactt ttcagaaaca 1800  
 93 tcttaacgtg catcttcccc tcagcttaca accagaagtc tccacaccca ttgcttttcc 1860  
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 97 agaagaaaaa tgccttctta caaagatggg cgtatggatc ttggtctcag ttaattagat 1980  
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 109 agttattgta cccattttac aactaagaac attaatgac taggttgagg caccgaaggt 2340  
 111 tgtcctctca gagccaaagc tgagactggc agatgaccag gagttttagg aaggaaggaa 2400  
 113 ggaaggaagg aaggaaggaa ggaaggaagg aaggaaggaa ggaaggggtc agttgagtgt 2460  
 115 aggggtcattt tcaatgacaa aaacaaaaaac tgggaatcagt tggtttggtg gtaattccat 2520  
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 124 <212> TYPE: DNA  
 125 <213> ORGANISM: Homo sapiens  
 127 <220> FEATURE:  
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 129 <223> OTHER INFORMATION: n is a, c, g, or t  
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 135 taaaactttg ggcccttcc tctcacttc ttacggcatc ctctaagcga cccctagaat 120  
 137 gtttcttttg agctaccctg gttgctcctc cctctacggt aactcgactc actccttcc 180  
 139 tccggacacg tctgtaggtc tcgggctcgg ggacacacgc tgacgtogac gacaccgtag 240  
 141 gggttcgcca tgtagtagcg acagtactca cgggacccta agacgtaaag gaaaccctaa 300  
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 145 ccctttggcc tttaggtctg tcgtgtcaaa ttgaccctag gtctctgcca cccttcccgc 420  
 147 ttaagagaat aggtacctag aaaaaagacc ccaatataac actgtgttta agggccaccg 480  
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 155 ttcacccgtg gaggggacct ctcttcagca gatcgggtgt ggagaaaaac accaaggata 720  
 157 cggccccgtc agcaacgata cggggaacgt cctcataacc acgtcatgta accgaccggg 780  
 159 agacggaaaa tataaatgcc ctacaaacct taataaacca tgtacaaaac cgacgacgac 840  
 161 gtccgaatac tcacaggtcg tcaagtgggt tgttataggt tacttcttgc ctggatgtat 900  
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 169 cgttattcat tccaccacga gaacagtcga cagggtgtgt accactactg ttagcaccat 1140  
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## RAW SEQUENCE LISTING

DATE: 04/08/2002

PATENT APPLICATION: US/09/915,181A

TIME: 15:33:00

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Output Set: N:\CRF3\04082002\I915181A.raw

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 177 ccgaaacggt aaagtccaaa gttacagttg gtggacctgt aacgaggtgc tatacggtcg 1380  
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 181 caaccacggt actgtttcgt gttctgggcc cttcttaccg tcttacacaa ggagtatcgt 1500  
 183 cgggaccacg tgatgtcacc tcagtagaag atgccccaga aacgaagacc cttttttgtc 1560  
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 187 aatcggtccc tttgtcttga gttggtgctc cgaaagcatt cagggtcttt cttctacaga 1680  
 189 atacctcggt ggtgggtctt aacactccag gtcttctgcc tagcctctgt tgtctctctt 1740  
 191 aggcggaagc tccccctcct cggtaatagg atggtcttac ttctcctgaa aagtctttgt 1800  
 193 agaattgcac gtagaagggg agtcgaatgt tgggtcttcag aggtgtgggt aacgaaaagg 1860  
 195 gtatggaacc ggaaggtccc ccggtttagt gtcctttccc cctctgattt agttgttgtc 1920  
 197 tcttcttttt acggaagaat gtttctaccc gcatacctag aaccagagtc aattaatcta 1980  
 199 tcaactagta taaaaaaaac ccccccggtt aaccgcgtac cgacaactcg gaagagagtt 2040  
 201 ttcttggttaa ataagtcctt ctttaccgat cttcttatte ctcaccgaac aacgagttta 2100  
 203 tttgtgactt ctttagggag aaaccagacc tcttctcatg taccaccaac ggtggggtag 2160  
 205 aggttcctat aggtacatct cctgtagtag acgttggtt acttccctta gtgagtacct 2220  
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 213 ccttctctcc ttccttctct ccttctctcc ttccttctct ccttcccaag tcaactcaca 2460  
 215 tcccagtaaa agttactgtt tttgtttttg accttagtca accaaacacc cattaaggta 2520  
 217 caaaccagtt cccacacacg tacgtttgca catacacgca cacacacaca aacacacaaa 2580  
 219 cncacantcn nmcntantnt tnttttn 2607

222 &lt;210&gt; SEQ ID NO: 3

223 &lt;211&gt; LENGTH: 850

224 &lt;212&gt; TYPE: PRT

225 &lt;213&gt; ORGANISM: Homo sapiens

227 &lt;400&gt; SEQUENCE: 3

229 Cys Ala Leu Lys Pro Pro Phe Lys Met Pro Phe Asn Ala Phe Asp Thr  
 230 1 5 10 15  
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 233 20 25 30  
 235 Val Gly Asp Ser Leu Gly Ile Leu Gln Arg Lys Leu Asp Gly Thr Asn  
 236 35 40 45  
 238 Glu Glu Gly Asp Ala Ile Glu Leu Ser Glu Glu Gly Arg Pro Val Gln  
 239 50 55 60  
 241 Thr Ser Arg Ala Arg Ala Pro Val Cys Asp Cys Ser Cys Cys Gly Ile  
 242 65 70 75 80  
 244 Pro Lys Arg Tyr Ile Ala Val Met Ser Gly Leu Gly Phe Cys Ile  
 245 85 90 95  
 247 Ser Phe Gly Ile Arg Cys Asn Leu Gly Val Ala Ile Val Glu Met Val  
 248 100 105 110  
 250 Asn Asn Ser Thr Val Tyr Val Asp Gly Lys Pro Glu Ile Gln Thr Ala  
 251 115 120 125  
 253 Gln Phe Asn Trp Asp Pro Glu Thr Val Gly Arg Ala Asn Ser Leu Ile  
 254 130 135 140  
 256 His Gly Ser Phe Phe Trp Gly Tyr Ile Val Thr Gln Ile Pro Gly Gly  
 257 145 150 155 160

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002

TIME: 15:33:00

Input Set : A:\305-932610US.txt

Output Set: N:\CRF3\04082002\I915181A.raw

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259 Phe Ile Ser Asn Lys Phe Ala Ala Asn Arg Val Phe Gly Ala Ala Ile
260                               165                               170                               175
262 Phe Leu Thr Ser Thr Leu Asn Met Phe Ile Pro Ser Ala Ala Arg Val
263                               180                               185                               190
265 His Tyr Gly Cys Val Met Cys Val Arg Ile Leu Gln Gly Leu Val Glu
266                               195                               200                               205
268 Gly Val Thr Tyr Pro Ala Cys His Gly Met Trp Ser Lys Trp Ala Pro
269                               210                               215                               220
271 Pro Leu Glu Arg Ser Arg Leu Ala Thr Thr Ser Phe Cys Gly Ser Tyr
272 225                               230                               235                               240
274 Ala Gly Ala Val Val Ala Met Pro Leu Ala Gly Val Leu Val Gln Tyr
275                               245                               250                               255
277 Ile Gly Trp Ala Ser Ala Phe Tyr Ile Tyr Gly Met Phe Gly Ile Ile
278                               260                               265                               270
280 Trp Tyr Met Phe Trp Leu Leu Leu Gln Ala Tyr Glu Cys Pro Ala Val
281                               275                               280                               285
283 His Pro Thr Ile Ser Asn Glu Glu Arg Thr Tyr Ile Glu Thr Ser Ile
284                               290                               295                               300
286 Gly Glu Gly Ala Asn Leu Ala Ser Leu Ser Lys Phe Asn Thr Pro Trp
287 305                               310                               315                               320
289 Arg Arg Phe Phe Thr Ser Leu Pro Val Tyr Ala Ile Ile Val Ala Asn
290                               325                               330                               335
292 Phe Cys Arg Ser Trp Thr Phe Tyr Leu Leu Leu Ile Ser Gln Pro Ala
293                               340                               345                               350
295 Tyr Phe Glu Glu Val Phe Gly Phe Ala Ile Ser Lys Val Gly Leu Leu
296                               355                               360                               365
298 Ser Ala Val Pro His Met Val Met Thr Ile Val Val Pro Ile Gly Gly
299                               370                               375                               380
301 Gln Leu Ala Asp Tyr Leu Arg Ser Arg Lys Ile Leu Thr Thr Thr Ala
302 385                               390                               395                               400
304 Val Arg Lys Ile Met Asn Cys Gly Gly Phe Gly Met Glu Ala Thr Leu
305                               405                               410                               415
307 Leu Leu Val Val Gly Phe Ser His Thr Lys Gly Val Ala Ile Ser Phe
308                               420                               425                               430
310 Leu Val Leu Ala Val Gly Phe Ser Gly Phe Ala Ile Ser Gly Phe Asn
311                               435                               440                               445
313 Val Asn His Leu Asp Ile Ala Pro Arg Tyr Ala Ser Ile Leu Met Gly
314                               450                               455                               460
316 Ile Ser Asn Gly Val Gly Thr Leu Ser Gly Met Val Cys Pro Leu Ile
317 465                               470                               475                               480
319 Val Gly Ala Met Thr Lys His Lys Thr Arg Glu Glu Trp Gln Asn Val
320                               485                               490                               495
322 Phe Leu Ile Ala Ala Leu Val His Tyr Ser Gly Val Ile Phe Tyr Gly
323                               500                               505                               510
325 Val Phe Ala Ser Gly Glu Lys Gln Asp Trp Ala Asp Pro Glu Asn Leu
326                               515                               520                               525
328 Ser Glu Glu Lys Cys Gly Ile Ile Asp Gln Asp Glu Leu Ala Glu Glu
329 530                               535                               540
331 Thr Glu Leu Asn His Glu Ala Phe Val Ser Pro Arg Lys Lys Met Ser

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002

TIME: 15:33:00

Input Set : A:\305-932610US.txt

Output Set: N:\CRF3\04082002\I915181A.raw

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334 Tyr Gly Ala Thr Thr Gln Asn Cys Glu Val Gln Lys Thr Asp Arg Arg
335          565          570          575
337 Gln Gln Arg Glu Ser Ala Phe Glu Gly Glu Glu Pro Leu Ser Tyr Gln
338          580          585          590
340 Asn Glu Glu Asp Phe Ser Glu Thr Ser Arg Ala Ser Ser Pro Gln Leu
341          595          600          605
343 Thr Thr Arg Ser Leu His Thr His Cys Phe Ser His Thr Leu Ala Phe
344          610          615          620
346 Gln Gly Ala Lys Ser Gln Glu Arg Gly Arg Leu Asn Gln Gln Gln Arg
347 625          630          635          640
349 Arg Lys Met Pro Ser Tyr Lys Asp Gly Arg Met Asp Leu Gly Leu Ser
350          645          650          655
352 Leu Asp Ser Ser Tyr Phe Phe Trp Gly Gly Gln Leu Gly Ile Gly Cys
353          660          665          670
355 Ala Phe Ser Gln Lys Asn Asn Leu Phe Arg Lys Lys Trp Leu Glu Glu
356          675          680          685
358 Gly Val Ala Cys Cys Ser Asn Lys His Arg Asn Pro Ser Leu Val Trp
359          690          695          700
361 Arg Arg Val His Gly Gly Cys His Pro Ile Ser Lys Asp Ile His Val
362 705          710          715          720
364 Glu Asp Asn Leu Cys Asn Leu Met Lys Gly Ile Thr His Gly Gly Pro
365          725          730          735
367 Trp Leu Cys Gln Val Leu Tyr Glu His Ser Tyr Leu Thr Pro Thr Pro
368          740          745          750
370 Tyr Ser Tyr Cys Thr His Phe Thr Thr Lys Asn Ile Lys Leu Gly Trp
371          755          760          765
373 Pro Thr Gln Gly Cys Pro Leu Arg Ala Lys Ala Glu Thr Gly Arg Pro
374          770          775          780
376 Gly Val Leu Gly Arg Lys Glu Gly Arg Lys Glu Gly Arg Lys Glu Gly
377 785          790          795          800
379 Arg Lys Glu Gly Arg Lys Gly Ser Val Glu Cys Arg Val Ile Phe Asn
380          805          810          815
382 Asp Lys Asn Lys Asn Trp Asn Gln Leu Val Cys Gly Phe His Val Trp
383          820          825          830
385 Ser Arg Val Cys Ala Cys Lys Arg Val Cys Ala Cys Val Cys Val Cys
386          835          840          845
388 Val Phe
389          850
391 <210> SEQ ID NO: 4
392 <211> LENGTH: 582
393 <212> TYPE: PRT
394 <213> ORGANISM: Rattus rattus
396 <400> SEQUENCE: 4
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399 1          5          10          15
401 Lys Asn Phe Ala Gly Lys Ser Leu Gly Gln Ile Tyr Arg Val Leu Glu
402          20          25          30
404 Lys Lys Gln Asp Asn Arg Glu Thr Ile Glu Leu Thr Glu Asp Gly Lys

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002  
TIME: 15:33:01

Input Set : A:\305-932610US.txt  
Output Set: N:\CRF3\04082002\I915181A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2582,2587,2590,2591,2592,2594,2597,2599,2602,2607  
Seq#:2; N Pos. 2582,2587,2590,2591,2592,2594,2597,2599,2602,2607  
Seq#:9; N Pos. 1,2,3,5,9,10,11,12,13,14

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11